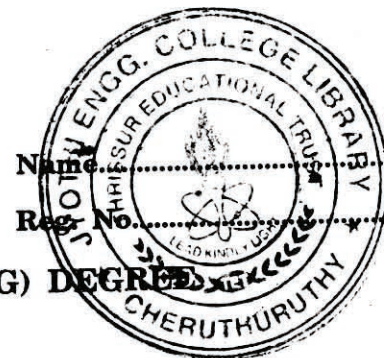


C 41303

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**SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, MAY 2013**

IT 09 L 05—INFORMATION RETRIEVAL

(2009 Admission onwards)

Time : Three Hours

Maximum : 70 Marks

Part A

Short answer questions (one / two sentences).

1. What are the capabilities in an Information Retrieval System ?
2. Define an IR model.
3. Define Recall and Precision.
4. What are the advantages of a key word-based querying ?
5. State the algorithms used for automatic feature extraction.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

Analytical / Problem solving questions.

6. Explain the text IR. Human-Computer interaction for IR, Multimedia IR and applications of IR.
7. Explain a sample of Hierarchical models.
8. Create a home page using an HTML and discuss how it is seen in a web browser.
9. Explain some text search algorithms.
10. Explain the steps involved in construction of suffix Arrays for large texts.
11. Discuss the usage of Web Directories along with their advantages and list some of them.

(4 × 5 = 20 marks)

Part C

Answer all questions.

Descriptive / Analytical / Problem solving questions.

12. (a) How databases can be used as a source of Information Retrieval ?

Or

- (b) Explain the various models for Browsing.

Turn over

13. (a) Explain CACM collection and ISI collection and discuss how its different from TREC collection.

Or

(b) Explain the various Query Protocols.

14. (a) Explain the various standard languages for multimedia applications.

Or

(b) Why indexing is required and explain the various ways of indexing ?

15. (a) Explain how Spatial Access Method (SAM) is used for clustering and searching.

Or

(b) Discuss the problems with the data and problems regarding the user and his interaction with the retrieval system and with the characterization of the Web.

(4 × 10 = 40 marks)